SEQUENCE LISTING

<110> Genox Research, Inc.
   National Center for Child Health and Development

<120> Methods for examination for allergic diseases, and drugs for
   treating allergic diseases

<130> G1-A0212-US

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<150> JP 2002-188490
<151> 2002-06-27

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<170> PatentIn Ver. 2.0

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ccgcagctgg acgcccctcc cgggctcact ttgcaacgct gacggtgccg gcagtggccg 300

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cctacactct cagcctccgc tggagagacc cccagcccca ccattcagcg cgcaagatac 720

cctccagat atg ccc tgc gtc caa gcc caa tat agc cct tcc cct cca ggt 771
           Met Pro Cys Val Gln Ala Gln Tyr Ser Pro Ser Pro Pro Gly
            1   5   10

tcc agt tat gcg gcg cag aca tac agc tcg gaa tac acc acg gag atc 819
Ser Ser Tyr Ala Ala Gln Thr Tyr Ser Ser Glu Tyr Thr Thr Glu Ile
15   20   25   30

atg aac ccc gac tac acc aag ctg acc atg gac ctt ggc agc act gag 867
Met Asn Pro Asp Tyr Thr Lys Leu Thr Met Asp Leu Gly Ser Thr Glu
           35   40   45

atc acg gct aca gcc acc acg tcc ctg ccc agc atc agt acc ttc gtg 915
Ile Thr Ala Thr Ala Thr Thr Ser Leu Pro Ser Ile Ser Thr Phe Val
      50   55   60

gag ggc tac tcg agc aac tac gaa ctc aag cct tcc tgc gtg tac caa 963
Glu Gly Tyr Ser Ser Asn Tyr Glu Leu Lys Pro Ser Cys Val Tyr Gln

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              65                    70                    75

atg cag cgg ccc ttg atc aaa gtg gag gag ggg cgg gcg ccc agc tac    1011
Met Gln Arg Pro Leu Ile Lys Val Glu Glu Gly Arg Ala Pro Ser Tyr
        80                    85                    90


cat cac cat cac cac cac cac cac cac cac cac cac cat cac cag cag    1059
His His His His His His His His His His His His His His Gln Gln
 95                    100                   105                   110


cag cat cag cag cca tcc att cct cca gcc tcc agc ccg gag gac gag    1107
Gln His Gln Gln Pro Ser Ile Pro Pro Ala Ser Ser Pro Glu Asp Glu
                115                   120                   125


gtg ctg ccc agc acc tcc atg tac ttc aag cag tcc cca ccg tcc acc    1155
Val Leu Pro Ser Thr Ser Met Tyr Phe Lys Gln Ser Pro Pro Ser Thr
                130                   135                   140


ccc acc acg ccg gcc ttc ccc ccg cag gcg ggg gcg tta tgg gac gag    1203
Pro Thr Thr Pro Ala Phe Pro Pro Gln Ala Gly Ala Leu Trp Asp Glu
                145                   150                   155


gca ctg ccc tcg gcg ccc ggc tgc atc gca ccc ggc ccg ctg ctg gac    1251
Ala Leu Pro Ser Ala Pro Gly Cys Ile Ala Pro Gly Pro Leu Leu Asp
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ccg ccg atg aag gcg gtc ccc acg gtg gcc ggc gcg cgc ttc ccg ctc    1299
Pro Pro Met Lys Ala Val Pro Thr Val Ala Gly Ala Arg Phe Pro Leu
175                   180                   185                   190


ttc cac ttc aag ccc tcg ccg ccg cat ccc ccc gcg ccc agc ccg gcc    1347
Phe His Phe Lys Pro Ser Pro Pro His Pro Pro Ala Pro Ser Pro Ala
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ggc ggc cac cac ctc ggc tac gac ccg acg gcc gct gcc gcg ctc agc    1395
Gly Gly His His Leu Gly Tyr Asp Pro Thr Ala Ala Ala Ala Leu Ser
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ctg ccg ctg gga gcc gca gcc gcc gcg ggc agc cag gcc gcc gcg ctt    1443
Leu Pro Leu Gly Ala Ala Ala Ala Ala Gly Ser Gln Ala Ala Ala Leu
        225                    230                    235

gag agc cac ccg tac ggg ctg ccg ctg gcc aag agg gcg gcc ccg ctg    1491
Glu Ser His Pro Tyr Gly Leu Pro Leu Ala Lys Arg Ala Ala Pro Leu
        240                    245                    250

gcc ttc ccg cct ctc ggc ctc acg ccc tcc cct acc gcg tcc agc ctg    1539
Ala Phe Pro Pro Leu Gly Leu Thr Pro Ser Pro Thr Ala Ser Ser Leu
255                    260                    265                    270

ctg ggc gag agt ccc agc ctg ccg tcg ccg ccc agc agg agc tcg tcg    1587
Leu Gly Glu Ser Pro Ser Leu Pro Ser Pro Pro Ser Arg Ser Ser Ser
                275                    280                    285

tct ggc gag ggc acg tgt gcc gtg tgc ggg gac aac gcc gcc tgc cag    1635
Ser Gly Glu Gly Thr Cys Ala Val Cys Gly Asp Asn Ala Ala Cys Gln
                290                    295                    300

cac tac ggc gtg cga acc tgc gag ggc tgc aag ggc ttt ttc aag aga    1683
His Tyr Gly Val Arg Thr Cys Glu Gly Cys Lys Gly Phe Phe Lys Arg
                305                    310                    315

aca gtg cag aaa aat gca aaa tat gtt tgc ctg gca aat aaa aac tgc    1731
Thr Val Gln Lys Asn Ala Lys Tyr Val Cys Leu Ala Asn Lys Asn Cys
        320                    325                    330

cca gta gac aag aga cgt cga aac cga tgt cag tac tgt cga ttt cag    1779
Pro Val Asp Lys Arg Arg Arg Asn Arg Cys Gln Tyr Cys Arg Phe Gln
335                    340                    345                    350

aag tgt ctc agt gtt gga atg gta aaa gaa gtt gtc cgt aca gat agt    1827
Lys Cys Leu Ser Val Gly Met Val Lys Glu Val Val Arg Thr Asp Ser
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ctg aaa ggg agg aga ggt cgt ctg cct tcc aaa cca aag agc cca tta   1875
Leu Lys Gly Arg Arg Gly Arg Leu Pro Ser Lys Pro Lys Ser Pro Leu
            370   375   380

caa cag gaa cct tct cag ccc tct cca cct tct cct cca atc tgc atg   1923
Gln Gln Glu Pro Ser Gln Pro Ser Pro Pro Ser Pro Pro Ile Cys Met
            385   390   395

atg aat gcc ctt gtc cga gct tta aca gac tca aca ccc aga gat ctt   1971
Met Asn Ala Leu Val Arg Ala Leu Thr Asp Ser Thr Pro Arg Asp Leu
        400   405   410

gat tat tcc aga tac tgt ccc act gac cag gct gct gca ggc aca gat   2019
Asp Tyr Ser Arg Tyr Cys Pro Thr Asp Gln Ala Ala Ala Gly Thr Asp
415   420   425   430

gct gag cat gtg caa caa ttc tac aac ctc ctg aca gcc tcc att gat   2067
Ala Glu His Val Gln Gln Phe Tyr Asn Leu Leu Thr Ala Ser Ile Asp
            435   440   445

gta tcc aga agc tgg gca gaa aag att ccg gga ttt act gat ctc ccc   2115
Val Ser Arg Ser Trp Ala Glu Lys Ile Pro Gly Phe Thr Asp Leu Pro
            450   455   460

aaa gaa gat cag aca tta ctt att gaa tca gcc ttt ttg gag ctg ttt   2163
Lys Glu Asp Gln Thr Leu Leu Ile Glu Ser Ala Phe Leu Glu Leu Phe
            465   470   475

gtc ctc aga ctt tcc atc agg tca aac act gct gaa gat aag ttt gtg   2211
Val Leu Arg Leu Ser Ile Arg Ser Asn Thr Ala Glu Asp Lys Phe Val
        480   485   490

ttc tgc aat gga ctt gtc ctg cat cga ctt cag tgc ctt cgt gga ttt   2259
Phe Cys Asn Gly Leu Val Leu His Arg Leu Gln Cys Leu Arg Gly Phe

495   500   505   510

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ggg gag tgg ctc gac tct att aaa gac ttt tcc tta aat ttg cag agc    2307
Gly Glu Trp Leu Asp Ser Ile Lys Asp Phe Ser Leu Asn Leu Gln Ser
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ctg aac ctt gat atc caa gcc tta gcc tgc ctg tca gca ctg agc atg    2355
Leu Asn Leu Asp Ile Gln Ala Leu Ala Cys Leu Ser Ala Leu Ser Met
                530                 535                 540


atc aca gaa aga cat ggg tta aaa gaa cca aag aga gtc gaa gag cta    2403
Ile Thr Glu Arg His Gly Leu Lys Glu Pro Lys Arg Val Glu Glu Leu
          545                 550                 555


tgc aac aag atc aca agc agt tta aaa gac cac cag agt aag gga cag    2451
Cys Asn Lys Ile Thr Ser Ser Leu Lys Asp His Gln Ser Lys Gly Gln
          560                 565                 570


gct ctg gag ccc acc gag tcc aag gtc ctg ggt gcc ctg gta gaa ctg    2499
Ala Leu Glu Pro Thr Glu Ser Lys Val Leu Gly Ala Leu Val Glu Leu
575                 580                 585                 590


agg aag atc tgc acc ctg ggc ctc cag cgc atc ttc tac ctg aag ctg    2547
Arg Lys Ile Cys Thr Leu Gly Leu Gln Arg Ile Phe Tyr Leu Lys Leu
                595                 600                 605


gaa gac ttg gtg tct cca cct tcc atc att gac aag ctc ttc ctg gac    2595
Glu Asp Leu Val Ser Pro Pro Ser Ile Ile Asp Lys Leu Phe Leu Asp
                610                 615                 620


acc cta cct ttc taatcaggag cagtggagca gtgagctgcc tcctctccta        2647
Thr Leu Pro Phe
          625


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        35   40   45

Ala Thr Ala Thr Thr Ser Leu Pro Ser Ile Ser Thr Phe Val Glu Gly
    50   55   60

Tyr Ser Ser Asn Tyr Glu Leu Lys Pro Ser Cys Val Tyr Gln Met Gln
65   70   75   80

Arg Pro Leu Ile Lys Val Glu Glu Gly Arg Ala Pro Ser Tyr His His
                85   90   95

His His His His His His His His His His Gln Gln Gln His
            100   105   110

Gln Gln Pro Ser Ile Pro Pro Ala Ser Ser Pro Glu Asp Glu Val Leu
        115   120   125

Pro Ser Thr Ser Met Tyr Phe Lys Gln Ser Pro Pro Ser Thr Pro Thr
    130   135   140

Thr Pro Ala Phe Pro Pro Gln Ala Gly Ala Leu Trp Asp Glu Ala Leu
145   150   155   160

Pro Ser Ala Pro Gly Cys Ile Ala Pro Gly Pro Leu Leu Asp Pro Pro
                165   170   175

Met Lys Ala Val Pro Thr Val Ala Gly Ala Arg Phe Pro Leu Phe His
            180   185   190

Phe Lys Pro Ser Pro Pro His Pro Pro Ala Pro Ser Pro Ala Gly Gly
        195   200   205

His His Leu Gly Tyr Asp Pro Thr Ala Ala Ala Ala Leu Ser Leu Pro
    210   215   220

Leu Gly Ala Ala Ala Ala Ala Gly Ser Gln Ala Ala Ala Leu Glu Ser
225   230   235   240

His Pro Tyr Gly Leu Pro Leu Ala Lys Arg Ala Ala Pro Leu Ala Phe
            245   250   255

Pro Pro Leu Gly Leu Thr Pro Ser Pro Thr Ala Ser Ser Leu Leu Gly
            260   265   270

Glu Ser Pro Ser Leu Pro Ser Pro Pro Ser Arg Ser Ser Ser Ser Gly
        275   280   285

Glu Gly Thr Cys Ala Val Cys Gly Asp Asn Ala Ala Cys Gln His Tyr
        290   295   300

Gly Val Arg Thr Cys Glu Gly Cys Lys Gly Phe Phe Lys Arg Thr Val
305   310   315   320

Gln Lys Asn Ala Lys Tyr Val Cys Leu Ala Asn Lys Asn Cys Pro Val
            325   330   335

Asp Lys Arg Arg Arg Asn Arg Cys Gln Tyr Cys Arg Phe Gln Lys Cys
340 345 350

Leu Ser Val Gly Met Val Lys Glu Val Val Arg Thr Asp Ser Leu Lys
355 360 365

Gly Arg Arg Gly Arg Leu Pro Ser Lys Pro Lys Ser Pro Leu Gln Gln
370 375 380

Glu Pro Ser Gln Pro Ser Pro Pro Ser Pro Pro Ile Cys Met Met Asn
385 390 395 400

Ala Leu Val Arg Ala Leu Thr Asp Ser Thr Pro Arg Asp Leu Asp Tyr
405 410 415

Ser Arg Tyr Cys Pro Thr Asp Gln Ala Ala Ala Gly Thr Asp Ala Glu
420 425 430

His Val Gln Gln Phe Tyr Asn Leu Leu Thr Ala Ser Ile Asp Val Ser
435 440 445

Arg Ser Trp Ala Glu Lys Ile Pro Gly Phe Thr Asp Leu Pro Lys Glu
450 455 460

Asp Gln Thr Leu Leu Ile Glu Ser Ala Phe Leu Glu Leu Phe Val Leu
465 470 475 480

Arg Leu Ser Ile Arg Ser Asn Thr Ala Glu Asp Lys Phe Val Phe Cys
485 490 495

Asn Gly Leu Val Leu His Arg Leu Gln Cys Leu Arg Gly Phe Gly Glu
500 505 510

Trp Leu Asp Ser Ile Lys Asp Phe Ser Leu Asn Leu Gln Ser Leu Asn
515 520 525

Leu Asp Ile Gln Ala Leu Ala Cys Leu Ser Ala Leu Ser Met Ile Thr
    530   535   540

Glu Arg His Gly Leu Lys Glu Pro Lys Arg Val Glu Glu Leu Cys Asn
545   550   555   560

Lys Ile Thr Ser Ser Leu Lys Asp His Gln Ser Lys Gly Gln Ala Leu
           565   570   575

Glu Pro Thr Glu Ser Lys Val Leu Gly Ala Leu Val Glu Leu Arg Lys
        580   585   590

Ile Cys Thr Leu Gly Leu Gln Arg Ile Phe Tyr Leu Lys Leu Glu Asp
        595   600   605

Leu Val Ser Pro Pro Ser Ile Ile Asp Lys Leu Phe Leu Asp Thr Leu
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Pro Phe
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<210> 4

<211> 17
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<210> 5
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<210> 7
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<210> 8
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<210> 18
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